



1FW 1765

PTO/SB/21 (09-04)

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/517,942
Filing Date	August 4, 2005
First Named Inventor	Ian D. Manger
Art Unit	1765
Examiner Name	Not Assigned
Attorney Docket Number	020174-008610US

ENCLOSURES (Check all that apply)

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| <input type="checkbox"/> Fee Transmittal Form
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152 References
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Patrick M. Boucher		
Date	February 6, 2006	Reg. No.	44,037

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

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Typed or printed name	Janet L. Newmaker	Date	February 6, 2006

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PATENT

Attorney Docket No.: 020174-008610US

Client Reference No.: F131.K2.US

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On February 6, 2006

TOWNSEND and TOWNSEND and CREW LLP

By: Janet L. Newmaker
Janet L. Newmaker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE.

In re application of:

Ian D. Manger et al.

Application No.: 10/517,942

Filed: August 4, 2005

For: Recirculating Fluidic Network And
Methods For Using The Same

Customer No.: 20350

Confirmation No.: 4959

Examiner: Not Assigned

Art Unit: 1765

**SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97 AND 1.98**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references (in compliance with the requirements of 37 CFR §1.98(a)(2)) are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicants believe that no fee is required for submission of this statement. If a fee is required, however, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

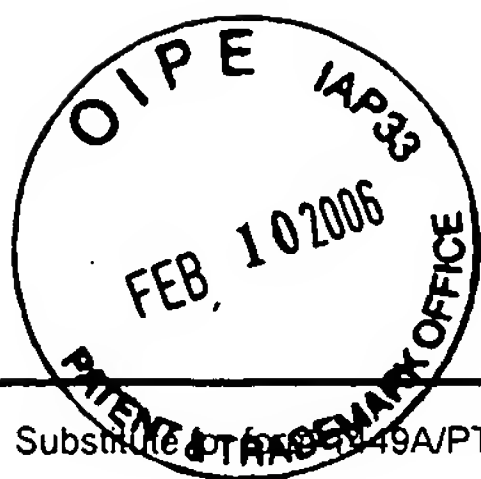
Respectfully submitted,



Patrick M. Boucher
Reg. No. 44,037

Date: February 6, 2006

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PMB/jln
60695827 v1



PTO/SB/08A (08-03)

Substitute for PTO/SB/08A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 16

Complete if Known

Application Number	10/517,942
Filing Date	August 4, 2005
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Art Unit	1765
Examiner Name	Not Assigned
Attorney Docket Number	020174-008610US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	A47	US-2,656,508	10-20-1953	Coulter	
	A48	US-3,560,754	02-02-1971	Kamentsky	
	A49	US-4,373,527	02-15-1983	Fischell	
	A50	US-4,575,681	03-11-1986	Grosso et al.	
	A51	US-4,581,624	04-08-1986	O'Connor	
	A52	US-4,585,209	04-29-1986	Aine et al.	
	A53	US-4,662,710	05-05-1987	ten Berge	
	A54	US-4,675,300	06-23-1987	Zare et al.	
	A55	US-4,786,165	11-22-1988	Yamamoto et al.	
	A56	US-4,908,112	03-13-1990	Pace	
	A57	US-4,963,498	10-16-1990	Hillman et al.	
	A58	US-4,992,312	02-12-1991	Frisch	
	A59	US-5,032,381	07-16-1991	Bronstein et al.	
	A60	US-5,126,022	06-30-1992	Soane et al.	
	A61	US-5,140,161	08-18-1992	Hillman et al.	
	A62	US-5,143,854	09-01-1992	Pirrung et al.	
	A63	US-5,164,598	11-17-1992	Hillman et al.	
	A64	US-5,271,724	12-21-1993	van Lintel	
	A65	US-5,434,049	07-18-1995	Okuno et al.	
	A66	US-5,452,878	09-26-1995	Gravesen et al.	
	A67	US-5,486,335	01-23-1996	Wilding et al.	
	A68	US-5,498,392	03-12-1996	Wilding et al.	
	A69	US-5,500,071	03-19-1996	Kaltenbach et al.	
	A70	US-5,512,131	04-30-1996	Kumar et al.	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/517,942
		Filing Date	August 4, 2005
		First Named Inventor	Ian D. Manger
		Art Unit	1765
		Examiner Name	Not Assigned
Sheet 2 of 16	Attorney Docket Number		020174-008610US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	A71	US-5,525,464	06-11-1996	Drmanac et al.	
	A72	US-5,558,998	09-24-1996	Hammond et al.	
	A73	US-5,574,893	11-12-1996	Southgate et al.	
	A74	US-5,580,523	12-03-1996	Bard	
	A75	US-5,589,136	12-31-1996	Northrup et al.	
	A76	US-5,632,876	05-27-1997	Zanzucchi et al.	
	A77	US-5,641,400	06-24-1997	Kaltenbach et al.	
	A78	US-5,661,222	08-26-1997	Hare	
	A79	US-5,665,070	09-09-1997	McPhee	
	A80	US-5,702,618	12-30-1997	Saaski et al.	
	A81	US-5,716,852	02-10-1998	Yager et al.	
	A82	US-5,726,751	03-10-1998	Altendorf et al.	
	A83	US-5,750,015	05-12-1998	Soane et al.	
	A84	US-5,757,482	05-26-1998	Fuchs et al.	
	A85	US-5,788,468	08-04-1998	Dewa et al.	
	A86	US-5,800,690	09-01-1998	Chow et al.	
	A87	US-5,807,522	09-15-1998	Brown et al.	
	A88	US-5,833,926	11-10-1998	Wurzel et al.	
	A89	US-5,837,200	11-17-1998	Diessel et al.	
	A90	US-5,852,495	12-22-1998	Parce	
	A91	US-5,854,684	12-29-1998	Stabile et al.	
	A92	US-5,856,174	01-05-1999	Lipshutz et al.	
	A93	US-5,863,502	01-26-1999	Southgate et al.	
	A94	US-5,863,801	01-26-1999	Southgate et al.	

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			Filing Date	August 4, 2005	
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			Art Unit	1765	
			Examiner Name	Not Assigned	
Sheet	3	of	16	Attorney Docket Number	020174-008610US

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		Number Kind Code ² (if known)			
	A95	US-5,869,004	02-09-1999	Parce et al.	
	A96	US-5,880,071	03-09-1999	Parce et al.	
	A97	US-5,904,824	05-18-1999	Oh	
	A98	US-5,997,961	12-07-1999	Feng et al.	
	A99	US-6,117,634	09-12-2000	Langmore et al.	
	A100	US-6,221,654 B1	04-24-2001	Quake et al.	
	A101	US-6,246,330 B1	06-12-2001	Nielsen	
	A102	US-2001-0027745 A1	10-11-2001	Weigl et al.	
	A103	US-2001-029983 A1	10-18-2001	Unger et al.	
	A104	US-2001-0041357 A1	11-15-2001	Fouillet et al.	
	A105	US-6,329,209 B1	12-11-2001	Wagner et al.	
	A106	US-2002-0012926 A1	01-31-2002	Quake et al.	
	A107	US-2002-0014673 A1	02-07-2002	Leedy	
	A108	US-6,345,502 B1	02-12-2002	Tai et al.	
	A109	US-6,358,387 B1	03-19-2002	Kopf-Sill et al.	
	A110	US-2002-0037499 A1	03-28-2002	Quake et al.	
	A111	US-2002-0045297 A1	04-18-2002	Leedy	
	A112	US-6,375,871 B1	04-23-2002	Bentsen et al.	
	A113	US-6,376,971 B1	04-23-2002	Petrine et al.	
	A114	US-2002-0108096 A1	08-08-2002	Lee et al.	
	A115	US-6,488,832 B2	12-03-2002	Heller	
	A116	US-2003-0008308 A1	01-09-2003	Enzelberger et al.	
	A117	US-6,520,936 B1	02-18-2003	Mann	
	A118	US-6,540,895 B2	04-01-2003	Quake et al.	

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	A119	US-6,541,071 B1	04-01-2003	Bookbinder et al.	
	A120	US-2003-0080442 A1	05-01-2003	Unger	
	A121	US-2003-0134129 A1	07-17-2003	Lammertink et al.	
	A122	US-2003-0138829 A1	07-24-2003	Unger et al.	
	A123	US-6,667,124 B2	12-23-2003	Suenaga et al.	
	A124	US-6,689,473 B2	02-10-2004	Guire et al.	
	A125	US-6,713,327 B2	03-30-2004	Leedy	
	A126	US-6,716,378 B2	04-06-2004	Yang et al.	
	A127	US-2004-0072278 A1	04-15-2004	Chou et al.	
	A128	US-2004-0115838 A1	06-17-2004	Quake et al.	
	A129	US-6,765,279 B2	07-20-2004	Leedy	
	A130	US-6,767,706 B2	07-27-2004	Quake et al.	
	A131	US-6,829,753 B2	12-07-2004	Lee et al.	
	A132	US-2004-0248167 A1	12-09-2004	Quake et al.	
	A133	US-6,833,242 B2	12-21-2004	Quake et al.	
	A134	US-6,847,153 B1	01-25-2005	Balizer	
	A135	US-6,866,785 B2	03-15-2005	Zare et al.	
	A136	US-2005-0065735 A1	03-24-2005	Lee et al.	
	A137	US-2005-0084421 A1	04-21-2005	Unger et al.	
	A138	US-6,884,346 B2	04-26-2005	Zare et al.	
	A139	US-2005-0123947 A1	06-09-2005	Quake et al.	
	A140	US-2005-0129581 A1	06-16-2005	McBride et al.	
	A141	US-2005-0145496 A1	07-07-2005	Goodsaid et al.	
	A142	US-2005-0197652 A1	09-08-2005	Nat	

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		Number Kind Code ² (if known)			
	A143	US-2005-0221373 A1	10-06-2005	Enzelberger et al.	
	A144	US-6,960,437 B2	11-01-2005	Enzelberger et al.	
	A145	US-2005-0252773 A1	11-17-2005	McBride et al.	
	A146	US-6,977,145 B2	12-20-2005	Fouillet et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	B19	EP	0 745 682	B1	12-04-1996	Bayer AG		<input type="checkbox"/>
	B20	EP	0 778 351	B1	06-11-1997	Hitachi, Ltd.		<input type="checkbox"/>
	B21	GB	2 264 296	A	08-25-1993	Zortech International Limited		<input type="checkbox"/>
	B22	GB	2 264 496	A	09-01-1993	United States Department of Energy		<input type="checkbox"/>
	B23	WO	91/13338	A2	09-05-1991	Hatfield Polytechnic Higher Education Corporation		<input type="checkbox"/>
	B24	WO	91/15750	A1	10-17-1991	Carrimed Ltd.		<input type="checkbox"/>
	B25	WO	94/05414	A1	03-17-1994	The Regents of the University of California		<input type="checkbox"/>
	B26	WO	95/33846	A1	12-14-1995	Affymax Technologies N.V.		<input type="checkbox"/>
	B27	WO	95/33853	A1	12-14-1995	University of Tennessee Research Corporation		<input type="checkbox"/>
	B28	WO	97/02357	A1	01-23-1997	Affymetrix, Inc.		<input type="checkbox"/>
	B29	WO	97/38300	A1	10-16-1997	Soane Biosciences		<input type="checkbox"/>
	B30	WO	98/08931	A1	03-05-1998	BTG USA Inc.		<input type="checkbox"/>
	B31	WO	01/06529	A1	01-25-2001	Moeller GmbH		<input type="checkbox"/>
	B32	WO	01/06575	A1	01-25-2001	SRI International		<input type="checkbox"/>
	B33	WO	01/09595	A2/A3	02-08-2001	Emerald Biostructures, Inc.		<input type="checkbox"/>

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	B34	WO	02/82047	A2	10-17-2002	California Institute Of Technology AND The Regents Of The University Of California		<input type="checkbox"/>

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C75	"Biochips," Nature Biotechnology, Vol. 18, Supplement 2000, pp. IT43-IT44, 2000	
	C76	"Chapter 9: Microfluidic Devices," Micromachined Transducers Sourcebook, pp. 779-882, 1998	
	C77	"Last Chance For Micromachines," The Economist Technology Quarterly, 8 pages, December 7, 2000	
	C78	"The Liver Chip," Technology Review, pp. 64-67, March 2003	
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				Art Unit	1764
				Examiner Name	Not Assigned
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Sheet	15	of	16	Attorney Docket Number	020174-008610US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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	C200	WILM, MATTHIAS et al., "Femtomole Sequencing Of Proteins From Polyacrylamide Gels By Nano-Electrospray Mass Spectrometry," Nature, Vol. 379, pp. 466-469, February 1, 1996	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/517,942	
			Filing Date	August 4, 2005	
			First Named Inventor	Ian D. Manger	
			Art Unit	1764	
			Examiner Name	Not Assigned	
Sheet	16	of	16	Attorney Docket Number	020174-008610US

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	C201	WU, HONGKAI et al., "Fabrication Of Complex Three-Dimensional Microchannel Systems In PDMS," J. Am. Chem. Soc., Vol. 125, No. 2, pp. 554-559, 2003	
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	C211	ZHAO, ZHAN, et al., "An Integrated Biochip Design And Fabrication," Proceedings of SPIE, Vol. 4936, pp. 321-326, 2002	

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